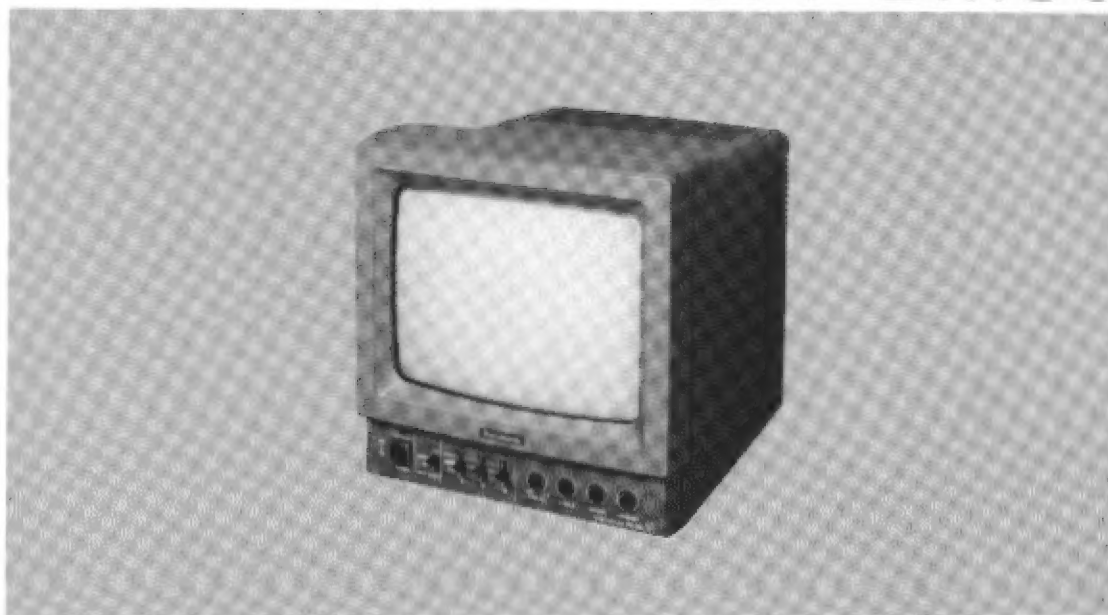


# Operating Instructions

Mini CCTV Monitor  
**WV-BM80**




**Panasonic.**

Before attempting to connect or operate this product, please read these instructions completely.


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**CAUTION**

RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**CAUTION:**  
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE.  
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



SA 1965

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



SA 1966

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## Warning:

This equipment generates and uses radio frequency energy and if not installed and used properly, i.e., in strict accordance with the instruction manual, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

For U.S.A.

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

For CANADA

The serial number of this product may be found on the bottom of the unit.

You should note the serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft.

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

## WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

## PREFACE

The Panasonic Mini CCTV Monitor WV-BM80 has built-in sequential switcher. The camera is simple to install and operate.

Just attach the mounting bracket to a wall or ceiling, aim the camera and focus. A single coaxial cable is used for the connection between the camera and monitor, and supplies the low voltage DC power and synchronizing vertical (V) drive pulse to the camera. This economical Mini CCTV System has been specially designed for the surveillance needs at offices, factories, stores, schools hospitals, public and residential building, etc.

The Panasonic offers the Mini CCTV Systems WV-81/KT which consists the CCTV Camera WV-80 and the Mini CCTV Monitor WV-BM80. Also this monitor allows to use the CCTV Camera WV-BL90A.

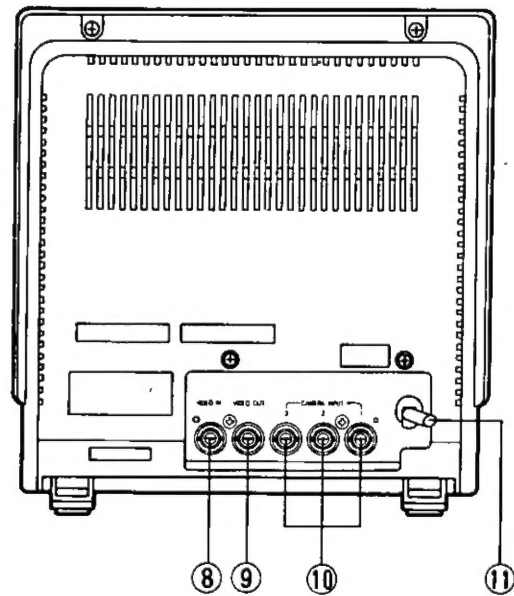
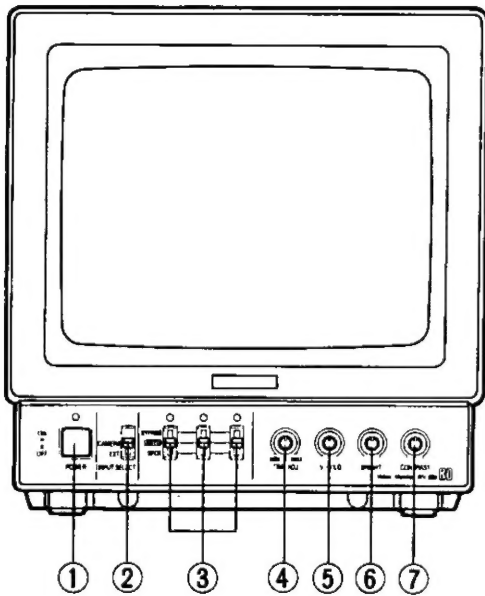
## FEATURES

- As many as three WV-80 cameras can be connected to this monitor.
- Monitor has 9" diagonal screen (8-1/2" diagonal actual visual size).
- Sequential switching interval is manually adjustable from 1 to 30 seconds.
- Built-in protection circuit for the camera and monitor for misconnection.
- VTR playback picture can be observed.
- Selectable mode from BYPASS, AUTO and SPOT.

## PRECAUTIONS

- Do not block the ventilation slots. Do place the video monitor at least 5 cm apart from the wall.
- Do not expose the monitor to water or moisture.
- Do not operate the monitor if it becomes wet. Do take immediate action if ever the monitor does become wet. Turn power off and refer servicing to qualified service personnel. Moisture can damage the monitor and also create the danger of electric shock.
- Do not attempt to disassemble the monitor. To prevent electric shock, do not remove screws or cover. There are no user-serviceable parts inside. Refer servicing to qualified service personnel.
- Use the monitor under conditions where temperature are 14°F - 122°F (-10°C - +50°C) and humidity is below 90%.
- Do not drop metallic parts through slots. This action could permanently damage the monitor. Do turn power off immediately and refer servicing to qualified service personnel.
- If the monitors are placed side by side, the pictures on the monitors may interfere with each other. It is recommended that the monitors should be placed or installed more than 15 cm away each other.
- Do not stack the monitors.
- This apparatus must be grounded to avoid interference to the picture.
- When the WV-BL90A is used with WV-BM80, do not use the optional microphone unit WV-MC1. The audio beat will be appeared on this monitor.

# MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS



## 1. Power ON/OFF Switch (POWER)

This is a push type switch which turns the monitor On and Off.

Push once and the switch remains down (■) for turning on the monitor and cameras.

Power and camera number indicator lamps light on.

Push again, the switch comes up (□) for turning off the monitor and cameras, and the lamps go off.

## 2. Input Selection Switch (INPUT SELECT, EXT/CAMERA)

This selects the condition of monitor as;

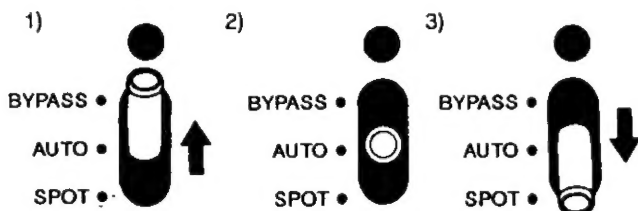
EXT:

VTR playback picture or an external camera connected to the Video Input Connector (8) can be observed.

CAMERA:

Camera picture connected to Camera Input Connector (10) can be observed.

## 3. 3-Position Selector Switch



## 1) BYPASS mode

When the switch is set to this mode, the signal of the camera in that position will be skipped regardless of the presence of video signal. In other words, the signals from that camera will not be fed out to Video Output Connector (9).

## 2) AUTO mode

When the switches are set to this mode, the signal from the camera will be switched automatically in sequence.

## 3) SPOT mode

When this mode is selected, the signal of the camera in that position will come out of the Video Output connector (9) so that the camera signal can be selectively monitored. If two or more cameras are set to this mode, the signal of the lower-numbered camera will be fed out to the Video Output Connector (9).

## 4. Time Adjustment (TIME ADJ, MIN/MAX)

The interval of the sequential switching can be manually adjusted from 1 to 30 seconds by adjusting this knob.

## 5. Vertical Hold Control (V.HOLD)

Locks in the picture of monitor vertically.

## 6. Bright Control (BRIGHT)

Turn this control clockwise to increase the picture brightness.

**7. Contrast Control (CONTRAST)**

Turn this control clockwise to increase the picture contrast.

**8. Video Input Connector (VIDEO IN)**

This is an external video input connector for an external or VTR playback picture.

When the external video signal is to be shown on the video monitor, set the Input Selection Switch (2) to the EXT position.

**9. Video Output Connector (VIDEO OUT)**

This connector is used to provide the video output signals of the cameras to an additional monitor or video tape recorder.

**10. Camera Input Connectors (CAMERA INPUT)**

These connectors are used to connect the Mini CCTV Camera WV-80.

These connectors supply the DC power and vertical drive pulse to the cameras, and receive the video signal from the cameras.

Note :

- Connect the camera only after making sure that the monitor is off. If the camera is connected while the monitor is on, the camera will not function due to activation of the protection circuit for misconnection.

Caution :

- When the WV-BL90A is used with WV-BM80, do not use the optional microphone unit WV-MC1. The audio beat will be appeared on this monitor.

**11. Power Cord**

## SPECIFICATIONS

Power Supply :	120V AC 60 Hz
Power Consumption :	45W
Camera Input :	1.0Vp-p/75 ohms, Composite x 3 (BNC)
Video Input :	1.0Vp-p/75 ohms, composite x 1 (BNC)
Video Output :	1.0Vp-p/75 ohms, composite x 1 (BNC)
Power Supply for Camera :	Regulated Current multiplex method (BNC)
Camera Switching :	Manual/Auto (Sequence) With manual bypass
Sequential Switching Interval :	Adjustable; 1 to 30 sec.
Resolution :	750 lines at center
Sweep Linearity :	V : Less than 7% H : Less than 5%
Dimensions :	9"(W) x 9-7/16"(H) x 10-3/8"(D) 230(W) x 240(H) x 264(D) mm
Weight :	8.4 lbs. (3.8 kg)

Weights and dimensions shown are approximate.  
Specifications are subject to change without notice.

# Panasonic

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